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Method and Apparatus for Depositing Antireflective Coating

ABSTRACT OF THE DISCLOSURE

This invention provides a stable process for depositing an antireflective layer. Helium gas is used to lower the deposition rate of plasma-enhanced silane oxide, silane oxynitride, and silane nitride processes. Helium is also used to stabilize the process, so that different films can be deposited. The invention also provides conditions under which process parameters can be controlled to produce antireflective layers with varying optimum refractive index, absorptive index, and thickness for obtaining the desired optical behavior.

RCC02101:rcc/mks